

Docket No. 145581-1

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LISTING OF THE CLAIMS

1. (Previously Presented) A method for making a fog resistant thermoplastic article, comprising:

blending an aromatic thermoplastic polymer and an ionic anti-fog additive to form a blend;

molding the blend to form an aromatic thermoplastic polymer article; and

exposing the aromatic thermoplastic polymer article to an aqueous environment sufficient to result in a fog resistant aromatic thermoplastic polymer article,

wherein the exposing comprises exposing to steam, immersing in water, spraying with water, misting with water, or combinations comprising at least one of the foregoing;

wherein the fog resistant aromatic thermoplastic polymer article has a greater fog resistance when compared to the aromatic thermoplastic polymer article prior to exposing.

2. (Canceled)

3. (Original) The method of claim 1, wherein the exposing is performed for greater than or equal to about 20 minutes.

4. (Original) The method of claim 1, wherein the exposing is performed for greater than or equal to about 45 minutes.

5. (Original) The method of claim 1, wherein the aromatic thermoplastic polymer article comprises a composition comprising aromatic polycarbonate, polyphenylene ether, aromatic polyester, polyphenylene ether/styrene blend, aromatic polyamide, polyethylene terephthalate, blends thereof, or a combination comprising at least one of the foregoing polymers.

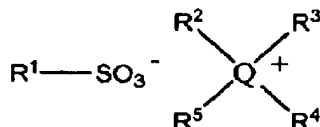
6. (Currently Amended) The method of claim 51, wherein the aromatic thermoplastic polymer article comprises a composition comprising polycarbonate, an aromatic polycarbonate, a (co)polyestercarbonate, an aromatic (co)polyestercarbonate, blends thereof, or a combination comprising at least one of the foregoing polymers.

7. (Canceled)

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8. (Previously Presented) The method of claim 1, wherein the ionic anti-fog additive is a sulfonic acid salt.

9. (Original) The method of claim 8, wherein the sulfonic acid salt is according to the formula:



wherein Q is nitrogen or phosphorus; R¹ is a C₁-C₄₀ alkyl group, a C₁-C₄₀ haloalkyl group, a C₆-C₄₀ aryl group, a (C₆-C₁₂ aryl)C₁-C₄₀ alkyl group, or a (C₁-C₄₀ alkyl)C₆-C₁₂ aryl group; and R², R³, R⁴ and R⁵ are each independently hydrogen, a C₁-C₂₀ alkyl group, a C₁-C₂₀ hydroxyalkyl group, or a C₆-C₁₂ aryl group.

10. (Original) The method of claim 8, wherein the sulfonic acid salt is a tetraalkyl ammonium salt of a sulfonic acid, a trialkyl(hydroxyalkyl) ammonium salt of a sulfonic acid, tetraalkyl phosphonium salt of a sulfonic acid, a trialkyl(hydroxyalkyl) phosphonium salt of a sulfonic acid, or combinations comprising at least one of the foregoing sulfonic acid salts.

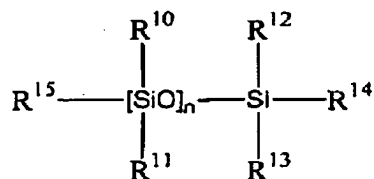
11. (Previously Presented) The method of claim 21, wherein the ionic or non-ionic anti-fog additive is present in an amount of about 0.1 to about 10 weight percent based on the total weight of the composition.

12. (Canceled)

13. (Currently Amended) The method of claim ~~1221~~, wherein the polysiloxane-polyether copolymer comprises a backbone of a methyl-substituted siloxane, phenyl-substituted siloxane, random copolymer of methyl and phenyl substituted siloxane, block copolymer of methyl and phenyl substituted siloxane, branched polymer of methyl and phenyl substituted siloxane, or star polymer of methyl and phenyl substituted siloxane; and wherein polyether is bonded to one or more ends of the siloxane backbone, grafted onto the siloxane, or both.

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14. (Currently Amended) The method of claim 1, wherein the polysiloxane-polyether copolymer is according to the formula



wherein n is about 3 to about 5000; and R¹⁰, R¹¹, R¹², R¹³, R¹⁴, R¹⁵ are each independently hydrogen, a C₁-C₂₀ alkyl group, a C₆-C₁₂ aryl group, a (C₁-C₂₀ alkyl)C₆-C₁₂ aryl group, a (C₆-C₁₂ aryl)C₁-C₂₀ alkyl group, a C₁-C₂₀ alkoxy, or polyether group, with the proviso that at least one of R¹⁰, R¹¹, R¹², R¹³, R¹⁴, or R¹⁵ is a polyether group.

15. (Original) The method of claim 1, wherein the fog resistant aromatic thermoplastic polymer article is free of an anti-fog coating.

16. (Canceled)

17. (Currently Amended) A method for making a fog resistant thermoplastic article, comprising:

blending a thermoplastic polymer and an ionic or a non-ionic anti-fog additive to form a blend;

molding the blend to form an thermoplastic article; and

exposing a thermoplastic article to an aqueous environment sufficient to result in a fog resistant thermoplastic article,

wherein the exposing comprises exposing to steam, immersing in water, spraying with water, misting with water, or combinations comprising at least one of the foregoing; and

wherein the fog resistant thermoplastic article has a greater fog resistance when compared to the thermoplastic article prior to exposing;

wherein the non-ionic anti-fog additive is a polysiloxane-polyether copolymer, a poly(propylene glycol)-poly(ethylene glycol)-poly(propylene glycol), or a poly(ethylene glycol)-poly(propylene glycol)-poly(ethylene glycol); and

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wherein the thermoplastic polymer comprises polycarbonate, an aromatic polycarbonate, a (co)polyestercarbonate, an aromatic (co)polyestercarbonate, blends thereof, or a combination comprising at least one of the foregoing polymers.

18. (Original) A fog resistant article prepared from the method of claim 1.

19. (Currently Amended) A fog resistant article prepared from the method of claim 1621.

20. (Original) A fog resistant article prepared from the method of claim 17.

21. (Currently Amended) A method for making a fog resistant thermoplastic article, comprising:

blending an aromatic thermoplastic polymer and an ionic or a non-ionic anti-fog additive to form a blend;

molding the blend to form an aromatic thermoplastic polymer article; and

exposing the aromatic thermoplastic polymer article to an aqueous environment sufficient to result in a fog resistant aromatic thermoplastic polymer article,

wherein the exposing comprises exposing to steam, immersing in water, spraying with water, misting with water, or combinations comprising at least one of the foregoing; and

wherein the fog resistant aromatic thermoplastic polymer article has a greater fog resistance when compared to the aromatic thermoplastic polymer article prior to exposing;

wherein the non-ionic anti-fog additive is a polysiloxane-polyether copolymer, a poly(propylene glycol)-poly(ethylene glycol)-poly(propylene glycol), or a poly(ethylene glycol)-poly(propylene glycol)-poly(ethylene glycol); and

wherein the aromatic thermoplastic polymer comprises polyphenylene ether, aromatic polyester, polyphenylene ether/styrene blend, aromatic polyamide, polyethylene terephthalate, blends thereof, or a combination comprising at least one of the foregoing polymers.